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INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB 03/04032A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04R9/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04R H02K B06B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 237 639 A (YASKAWA DENKI SEISAKUSHO KK) 23 September 1987 (1987-09-23)	1-4, 15-17, 20-23, 25,27-31
A	column 1, lines 4-11 column 1, line 42 - column 2, line 37	5-14,18, 19,24,26
A	column 3, line 11 - column 4, line 50 PATENT ABSTRACTS OF JAPAN vol. 0051, no. 03 (E-064), 3 July 1981 (1981-07-03) & JP 56 046398 A (FOSTER DENKI KK), 27 April 1981 (1981-04-27) abstract; figures 2,5,6 ----- -/-	1-31

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
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Date of the actual completion of the International search	Date of mailing of the International search report
20 April 2004	01/06/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel: (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Zanti, P

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 91/05447 A (JBL INC) 18 April 1991 (1991-04-18) cited in the application page 1, lines 12-19 page 5, lines 8-24 page 7, line 5 - page 9, line 26 -----	1-31

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 0237639	A	23-09-1987	JP	62193553 A		25-08-1987
			DE	3682671 D1		09-01-1992
			EP	0237639 A1		23-09-1987
			US	4703297 A		27-10-1987
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			JP	59002239 B		17-01-1984
WO 9105447	A	18-04-1991	WO	9105447 A1		18-04-1991